

Figure 1 (SEQ ID NO 1): Amino acid sequence of the protein PPTA from *P. chrysogenum* coded by the nucleic acid molecule according to the invention (illustrated from the N-terminus to the C-terminus).

1	MVDPSVSGIT	KMDTNDIKQN	DIPKDQPTLV	RWYMDVRRWD	EKYFDLPLLE
51	TLTQPDQAAV	KKYYQTSDKR	LSLASQLLKY	YYIHQATGTP	WSKIEIQ RTP
101	MPENRPFYDS	SLDFNVSHQA	GLTLFAGTRA	ATAHSLSGGP	QTLPRVGIDV
151	ACVDEPSRRR	ANRPPKTLAD	LATFVDVFSD	VLSLRELATI	KNPYATLKLA
201	RELGLNKSDP	SKDDQEV LAA	YGIRLFYSIW	ALKEAYLKMT	GDGLLASWIK
251	DLEFTNVVPP	EPVQTVGFAG	DPSATHAPSV	QNWGRPYS DV	KISLRGIPDH
301	SVRVQPVGFE	SDYIVATAAS	GPNIGSVSRQ	VVNDS DHHL	PGRITAFDSE
351	TGLQNVRI PP	IALRSIGDGD	PWRVDSKISD	PWLPMQEVDI	EIDIRPCADG
401	RCEHLRDLPS	F			

Figure 2 (SEQ ID NO 2): Genomic DNA sequence of the coding region of the pptA gene of *P. chrysogenum* from the translation start codon (ATG) to the translation stop codon (TAA). The intron is underscored. A single strand from the 5'- to 3'-direction is illustrated.

```

1  atggtagacc ccagtgtgtc tgggaattgtg agtagccaca tagcctccat
51 gagtgcaccc actgaccaat ttcagaccaa aatggatacc aatgatatca
101 aacagaatga catccccaag gaccagccca cgttgggtccg atggtacatg
151 gatgtcagac gttgggatga aaaatacttt gatctccctt tgcttgaaac
201 cttaacacag cctgatcagg cagctgtcaa gaagtactat caaacatcgg
251 acaagcgcct gtccttggcc tcccagttgc tgaaatatta ctacattcac
301 caagccactg gcactccctg gagcaagatt gagatccagc gtactccgat
351 gcccgaaaat cgaccattct acgattcaag cctggatttc aacgtcagcc
401 atcaggctgg tctcactctg ttgcgaggca cgcgtgccgc aacagcccac
451 tccttatccg gtggacctca aacattgcct cgcgtgggaa ttgacgttgc
501 gtgtgttgat gaaccctctc gtcgtcgtgc taatcgtecc ccgaagacac
551 ttgccgacct tgcaaccctc gtggatgtct tcagtgcagt tctctcactc
601 cgtgagcttg cgaccatcaa gaaccgcgtac gcgactctta aattggctcg
651 tgagcttggt ctgaataaaa gtgaccgcgag caaagacgac caggaagtcc
701 ttgctgccta cggcattcgg ctgttctact cgatttgggc tctcaaggag
751 gcttacttga aaatgaccgg agacggcctt ctggcctctt ggataaagga
801 tctggaattc acaaacgttg ttccccccga accagttcaa acagtcggat
851 ttgctggtga tccttctgcc actcacgcgc ctcgggtcca aaattggggc
901 cggccttact ccgatgtcaa aatctccttg cgtggcattc ctgaccattc
951 tgtgcgcggt cagctcgtcg gcttcgagtc cgactacata gttgccacgg
1001 ccgcgtcggg ccccaatatt ggatccggtt cgcggcaggt agtcgtgaat
1051 gacagcgatc accatctgcc agggcgatc acagccttcg actctgagac
1101 tggactccag aacgtccgca ttcccccaat cgcgcttcga tcaattggcg
1151 atggggaccc ctggcggtgtg gactcgaaaa tcagcgaccc ctggctcccc
1201 atgcaggagg tcgatattga aatcgatatc cggccctgtg cggatggtcg
1251 ttgcgagcac ctacgggatt taccaagctt ttaa

```


Figure 3 (SEQ ID NO 3): cDNA sequence of the coding region of the pptA gene of *P. chrysogenum* from the translation start codon (ATG) to the translation stop codon (TAA); a single strand from the 5'- to 3'-direction is illustrated.

```

1  atggtagacc ccagtgtgtc tggaattacc aaaatggata ccaatgatat
51  caaacagaat gacatcccca aggaccagcc cacgttggtc cgatgggtaca
101  tggatgtcag acgttgggat gaaaaatact ttgatctccc ttgcttgaa
151  accttaacac agcctgatca ggcagctgtc aagaagtact atcaaacatc
201  ggacaagcgc ctgtccttgg cctcccagtt gctgaaatat tactacattc
251  accaagccac tggcactccc tggagcaaga ttgagatcca gcgtactccg
301  atgcccgaaa atcgaccatt ctacgattca agcctggatt tcaacgtcag
351  ccatcaggct ggtctcactc tgttcgcagg cacgcgtgcc gcaacagccc
401  actccttatc cgggtggacct caaacattgc ctgcgctggg aattgacggt
451  gcgtgtgttg atgaaccctc tcgtcgtcgt gctaatcgtc ccccgagac
501  acttgccgac cttgcaacct tcgtggatgt cttcagtgac gttctctcac
551  tccgtgagct tgcgaccatc aagaaccctg acgcgactct taaattggct
601  cgtgagcttg gtctgaataa aagtgaccctg agcaaagacg accaggaagt
651  ccttgctgcc tacggcattc ggctgttcta ctcgatttgg gctctcaagg
701  aggcttactt gaaaatgacc ggagacggcc ttctggcctc ttggataaag
751  gatctggaat tcacaaacgt tgttcccccc gaaccagttc aaacagtcgg
801  atttgctggt gatccttctg ccactcacgc gccctcggtc caaaattggg
851  gccggcctta ctccgatgtc aaaatctcct tgcgtggcat tcctgaccat
901  tctgtgcgcg ttcagcccgt cggcttcgag tccgactaca tagttgccac
951  ggccgcgtcg ggccccaata ttggatccgt ttcgcggcag gtagtcgtga
1001  atgacagcga tcaccatctg ccagggcgta tcacagcctt cgactctgag
1051  actggactcc agaacgtccg cattccccca atcgcgcttc gatcaattgg
1101  cgatggggac ccctggcggtg tggactcgaa aatcagcgac ccctggctcc
1151  ccatgcagga ggtcgatatt gaaatcgata tccggccctg tgcggatggt
1201  cgttgcgagc acctacggga tttaccaagc ttttaa

```


Figure 4 (SEQ ID NO 4): Genomic DNA sequence of a Sall fragment of a genomic clone of the pptA gene (a single strand from the 5'- to 3'-direction is illustrated). The translation start codon (ATG) and the translation stop codon (TAA) of the coding region are underscored and illustrated in bold; the intron is underscored.

```

1   gtcgaccgaa gtgggtttcgg ttcactcgca catcaagacc accgatcagc
51  tcttgcccg ccttctttgt cttgttgga gactcggcaa gcaaaatgag
101 cccggcgcat gtacccacg tcggtttgc atccactctg cataaccac
151 gtattagatc gaattgatat ggactaacc ggttcactca ctttacgaat
201 tctcgcagtg gctcgagaag atttgacctt gctgcgacta aagacatagt
251 ggtactctcg cctccgggca agaccaggcc gtcgcatgtt gccagttctt
301 gtggcgctcg tacttcaatg aagtgccatt ccgacggctg cgcttgctca
351 gcggcctttt tcaaaagctg cacatgctca aagaatgctg cctgtagggc
401 caggactcca acagtgatag ccatttcctc tgaagatcgg aattgctggc
451 cctccgagct cgggtgcttc ttgatattga tgactctttt taaagcacat
501 gactttgact ttccggcggg gaacgtatca acacgtgatg gcggcttatc
551 tccatcttta attccacgcg acatcaggat atcgtgagag ctctcggacg
601 attcctgcgc actttgaaaa cagactgcat aaccgaggca ttatagtata
651 aaacaaatag actcacctac agaaagagtg ataagttagg tcctatacct
701 gtttccaatg tttctctctc ttgctggatc agctttaaca tatctatgga
751 tgggtatctt gatagtcata gtcataattg gcttgctatt gcatgtctct
801 ttgctacatc ctatttatgg tattatgtac acggcctgtt tctcgtttgc
851 cggcctattg atgtatacat gtattggtgt aggtagtatt tgccctcgct
901 tatcgacacg tgctgataga taaggacccc gataagacgc caacatggct
951 tctatccagg tgtggatgct ccgcatccaa ggtgcgaata tacgagatca
1001 caatgcaatg gttagaccca gtgtgtctgg aattgtgagt agccacatag
1051 cctccatgag tgcacccact gaccaatttc agaccaaaat ggataccaat
1101 gatatacaac agaatgacat cccaaggac cagcccacgt tgggtccgatg
1151 gtacatggat gtcagacgtt gggatgaaaa atactttgat ctccctttgc
1201 ttgaaacctt aacacagcct gatcaggcag ctgtcaagaa gtactatcaa
1251 acatcggaca agcgcctgtc cttggcctcc cagttgctga aatattacta
1301 cattcaccaa gccactggca ctccctggag caagattgag atccagcgta
1351 ctccgatgcc cgaaaatcga ccattctacg attcaagcct ggatttcaac
1401 gtcagccatc aggttgggtc cactctgttc gcaggcacgc gtgccgaac
1451 agcccactcc ttatccggtg gacctcaaac attgcctcgc gtgggaattg
1501 acgttgcggtg tgttgatgaa cctctcgtc gtcgtgctaa tcgtcccccg
1551 aagacacttg ccgaccttgc aaccttcgtg gatgtcttca gtgacgttct
1601 ctactccgtg gagcttgcca ccataagaa cccgtacgcg actcttaa
1651 tggctcgtga gcttgggtct aataaaagt acccgagcaa agacgaccag
1701 gaagtccttg ctgcctacgg cattcggctg ttctactcga tttgggctct
1751 caaggaggct tacttgaaaa tgaccggaga cggccttctg gcctcttgga
1801 taaaggatct ggaattcaca aacgttggtc ccccgaacc agttcaaaca
1851 gtcggatttg ctggtgatcc ttctgccact cacgcgcctt cgggtccaaa
1901 ttggggccgg ccttactccg atgtcaaaat ctcttgctg ggcattcctg
1951 accattctgt gcgcgttcag ctcgctcggc tcgagtcoga ctacatagtt
2001 gccacggccg cgtcggggcc caatattgga tccgtttcgc ggcaggtagt
2051 cgtgaatgac agcgatcacc atctgccagg gcgtatcaca gccttcgact
2101 ctgagacttg actccagaac gtccgcattc cccaatcgc gcttcgatca
2151 attggcgatg gggacccctg gcgtgtggac tcgaaaatca gcgacccctg
2201 gctcccatg caggaggtcg atattgaaat cgatatccgg ccctgtgcgg

```


- 22 -

```
2251 atggtcgttg cgagcaccta cgggattttac caagcttttta aattccttct
2301 tgctgggata tgaccaggcg accatgcacc cgagttatTTT gcataattgca
2351 tctcctcatc tcatattcct ttctgagcgt gtttttcgga gcgataatta
2401 cccttgaaca tatttctgca ttgctgtatt gccattagcg aaaattcccg
2451 agctagttgt agttgatttc ctggaacgct gggggagtgC cgctcagatg
2501 ttcattctcca ataagcccct caatgaatct tcacttcatc ggatccaagg
2551 tcaatcttcg agatcaagtg caagttgccc agaaagcacg ggtaaagaaa
2601 ccaagcctat ttctattcta tggctctaatg taaactaaaa atgtagaagg
2651 aagaaaagca agtatccaac agtaggcggg tcatgacatg cgtgtgCgct
2701 aaggatatat acatttcgaa ttgcaaagag ggaagaggTg aatcaggagt
2751 gaaatgtgtg tcaagaggca atgtcaatgt caagatcatt gttgctctca
2801 tgagcagtca cggattgtgt cggattgttc ggcgtctggg gccctcagat
2851 tctatttctg ggtcatgagc ttgagagtag gtaccgaaga agtgagcagt
2901 attatactgc agtgagtgtt tagggggaat tccttctggT gaattgtggc
2951 gttcgggggt gctctccggt cttatgggtc ttaatctgga tgcccgatag
3001 tgcacccaag ttaggagaaa aacatatggt aagtgttaat cgtgggagcag
3051 tgtggcgaat cgCGaattgg gtttggcact tagatttCGa tggcgctaga
3101 gacgccgttg gcgcgagcac catcgacctc atttttatgc gcgtgggaca
3151 ttgctgcaag agttttgagc atcgaatccc gcgtcgac
```